

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) A method for introduction or extraction of exogenic bioparticles into or from biological membrane-enveloped structures, comprising:  
applying a magnetic alternating field to a sample comprising biological membrane-enveloped structures and magnetically susceptible particles and exogenic bioparticles, whereby an increase of the thermal and optionally kinetic energy of said magnetically susceptible particles causes the formation of temporary pores in said biological membrane-enveloped structures,

wherein said pores allow the introduction or extraction of bioparticles into or from said biological membrane-enveloped structures, and

wherein said biological membrane-enveloped structures are selected from the group consisting of cells, bacteria, virus particles, and organelles at a subcellular level.

2. (Original) A method according to claim 1, wherein said magnetic field has an alternating field direction of a frequency in the range 1-5 MHz.

3. (Previously Presented) A method according to claim 1, wherein said magnetic field has a field strength of 1 mT.

4. (Currently Amended) A method according to claim 1, wherein said magnetic field is non-homogeneous and has an alternating gradient field direction, ~~the direction of said alternating gradient field being generated by two coils, and said sample is inserted between the coils.~~

5-6. (Canceled).

7. (Previously Presented) A method according to claim 1, wherein said exogenic bioparticles are selected from the group consisting of DNA molecules, RNA molecules, proteins, other biopolymers, peptides, chemical preparations, organic compounds, inorganic compounds, synthetic polymers and combinations thereof.

8. (Canceled).

9. (Previously Presented) A method according to claim 1, for use for specific lysis of biological membrane-enveloped structures~~cells~~.

10. (Currently Amended) A method according to claim 1, for use for modifying the genetic code of biological membrane-enveloped structures~~ost-cell and/or metabolism~~.

11. (Withdrawn) A device for performing the method as defined in claim 1, comprising at least one coil for generating a magnetic alternating field, optionally, a thermostat for accurate temperature control of said at least one coil, a means for variable and accurate timing control of the time during which said alternating current is on and during which a sample to be treated is exposed to said applied magnetic field, and control system for accurate setting of strength and frequency of said alternating current.

12. (Original) A method according to claim 2, wherein said magnetic field has a field strength of 1 mT.

13. (Currently Amended) A method according to claim 2, wherein said magnetic field is non-homogeneous and has an alternating gradient field direction,~~the direction of said alternating gradient field being generated by two coils, and said sample is inserted between the coils.~~

14-15. (Canceled).

16. (Previously Presented) A method according to claim 2, wherein said bioparticles are selected from the group consisting of DNA molecules, RNA molecules, proteins, other

biopolymers, peptides, chemical preparations, organic compounds, inorganic compounds, synthetic polymers and combinations thereof.

17. (Canceled).

18. (Original) A method according to claim 2, for use for specific lysis of biological membrane-enveloped structurescells.

19. (Currently Amended) A method according to claim 2, for use for modifying the genetic code of biological membrane-enveloped structuresa host cell and/or metabolism.

20. (Withdrawn) A device for performing the method as defined in claim 2, comprising at least one coil for generating a magnetic alternating field, optionally, a thermostat for accurate temperature control of said at least one coil, a means for variable and accurate timing control of the time during which said alternating current is on and during which a sample to be treated is exposed to said applied magnetic field, and control system for accurate setting of strength and frequency of said alternating current.